INTERNATIONAL SEARCH REPORT

int onal Application No PCT/IT 03/00579

A.	CLA	SSIFIC	ATION	OF S	UBJE	CT MA	TTER
ΙP	,C	7	B22D	18/	04		

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols) IPC 7 B22D

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the International search (name of data base and, where practical, search terms used)

WPI Data, PAJ, EPO-Internal

GB 2 225 970 A (COLLINS MOTOR CORP LTD) 20 June 1990 (1990-06-20) page 1, line 14 -page 2, line 23; figures 1.2	1,2
page 3, last paragraph -page 5, line 24	
	3,4
US 4 733 714 A (SMITH ROBERT A) 29 March 1988 (1988-03-29) column 1 line 35 -column 2 line 30	1,2
2, 7116 30	3,4
DE 12 68 320 B (KARL SCHMIDT GES MIT BESCHRAEN) 16 May 1968 (1968-05-16) column 3, line 5 -column 4, line 3; figures 1-4	6
	3,4 11,21
	page 1, line 14 -page 2, line 23; figures 1,2 page 3, last paragraph -page 5, line 24 US 4 733 714 A (SMITH ROBERT A) 29 March 1988 (1988-03-29) column 1, line 35 -column 2, line 30 DE 12 68 320 B (KARL SCHMIDT GES MIT BESCHRAEN) 16 May 1968 (1968-05-16)

Further documents are listed in the continuation of box C.	Patent family members are listed in annex.
Special categories of cited documents: A' document defining the general state of the art which is not considered to be of particular relevance E earlier document but published on or after the international filing date L' document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) O' document referring to an oral disclosure, use, exhibition or other means P document published prior to the international filing date but later than the priority date claimed Date of the persual research.	 "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art. "&" document member of the same patent family
Date of the actual completion of the international search 25 March 2004	Date of mailing of the International search report 21/04/2004
Name and mailing address of the 'C-A European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	Authorized officer Mailliard, A

INTERNATIONAL SEARCH REPORT

Int onal Application No
PCT/IT 03/00579

	DOCUMENTS CONSIDERED TO BE RELEVANT	Indament and Maria
egory Citatio	on of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
1 c	S 3 874 440 A (VOISIN ALBERT S) April 1975 (1975-04-01) olumn 2, line 60 -column 6, line 26; igures 1-4	6-8
·		1,3,4, 21-23
\ 5	P 0 646 429 A (MAZDA MOTOR) April 1995 (1995-04-05) claims 1-17; figures 1-4,9	21-27
2	S 4 060 122 A (DI ROSA GAETANO) 9 November 1977 (1977-11-29) column 3, line 1 -column 5, line 58; figures 1-5	6,7,11
. '	rgules 1 3	26,27
	W 100 per 100 per	

INTERNATIONAL SEARCH REPORT

Information on patent family members

PCT/IT 03/00579

			L L	
Patent document cited in search report	Publication date		Patent family member(s)	Publication date
GB 2225970 A	20-06-1990	AU WO	3966389 A 9000101 A1	23-01-1990 11-01-1990
US 4733714 A	29-03-1988	AU	591968 B2	21-12-1989
		AU	6909287 A	27-08-1987
		CA	1314686 C	23-03-1993
		GB	2187984 A ,B	23-09-1987
		JP	1677469 C	13-07-1992
		JP	3042991 B	28-06-1991
		JP	62234653 A	14-10-1987
		KR	9106182 B1	16-08-1991
		MX 	168807 B	09-06-1993
DE 1268320 E	16-05-1968	NONE		
US 3874440 A	01-04-1975	FR	2210467 A1	12-07-1974
		DE	2361934 A1	20-06-1974
		ES	198814 Y	16-11-1975
		FR	2253590 A2	04-07-1975
		GB	1434969 A	12-05-1976
		IT	999951 B	10-03-1976
		JP	49096924 A	13-09-1974
		SU 	502595 A3	05-02-1976
EP 0646429	05-04-1995	JP	7308750 A	28-11-1995
		DE	69415117 D1	21-01-1999
		DE	69415117 T2	05-08-1999
		EP	0646429 A1	05-04-1995
		ES	2126029 T3	16-03-1999
		US 	5611388 A	18-03-1997
US 4060122	A 29-11-1977	IT	1070235 B	29-03-1985
		DE	2704322 A1	18-08-1977
		FR	2340157 A1	02-09-1977
		GB	1530773 A	